

Application profiles courtesy of:

## APPLICATION #02:

### UNIST COOLUBRICATOR IMPROVES POWDER COATING SUCCESS

Internal suspended ceiling manufacturer 900mm Wide x 1500mm long component

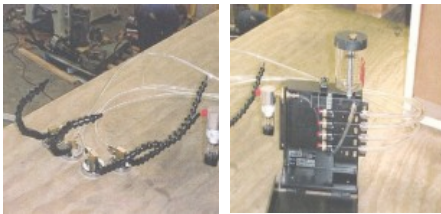
#### The Problem:

The customer was using a paint roller to apply lubricant to the material. This system, while CHEAP was totally unsatisfactory. The customer had no control over the amount of oil that was applied. The uncontrollable application of the oil caused many problems for the customer down stream when the material had to be powder coated, the material had to go through a washing stage twice to remove the excess oil.

#### Tooling Configuration:

This was not a consideration in this application, as the tooling did not require any changes to be made.

#### The UNIST Solution:



After studying the application, PSA recommend a Unist Coolubricator system. This system consists of a pulse generator (up to 200 pulses/min) with two banks of 4 metering pumps, 8 plastic spray nozzles (4 off top, 4 off bottom). The size of the component is very large 900mm x 1500mm long and is fed into the press by an automatic sheet feeder. The Unist system is controlled via a PLC for total control flexibility.

#### Justification:

Because the material was now easy to clean and only needed a light wash (once through the washer) justification was easy as production increased.

#### Pay Back:

This was estimated at 6 months

#### Future action:

The company has another identical line and plans to invest in another system for this line. The customers system used 8 pumps and nozzles, which would be double of what is shown in this picture

